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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,930	09/11/2003	Wayne E. Cornish	ACS 65357 (1512XCC)	5064
7590 06/30/2008 FULWIDER PATTON LEE & UTECHT, LLP Howard Hughes Center			EXAMINER	
			APANIUS, MICHAEL	
Tenth Floor 6060 Center Drive		ART UNIT	PAPER NUMBER	
Los Angeles, CA 90045			3736	
			MAIL DATE	DELIVERY MODE
			06/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/659,930	CORNISH ET AL.
Office Action Summary	Examiner	Art Unit
	Michael Apanius	3736
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTH OF THE M	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be ti d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 28 and 2a. This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 64-84 is/are pending in the applicati 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 64-84 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
9) The specification is objected to by the Examir	ner	
10) The drawing(s) filed on is/are: a) according to the external and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the oath or declaration is objected to by the External and the	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/28/2008 has been entered. The amendments to claims 64, 71 and 78, the amendments to the specification, and the terminal disclaimer are acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claims 64-70 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 4,808,186). Smith discloses an intracorporeal device (58) comprising an elongated member having a longitudinal length (between the upper horizontal dashed line and the lower horizontal dashed line of figure 7) and means for causing a substantially linear change in bending stiffness (see plot of the relative flexibility of CO-CR-MO SOLID) over the entire longitudinal length of the elongated member. The plot of the bending

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stiffness is not perfectly linear; however, it is *substantially* linear as claimed. The length of the elongated member has a continuously changing taper angle producing a curvilinear profile (see outer profile of 58). The elongated member has at least 3 tapered segments (32, 42, 44). Tapered segment (32) has a substantially constant taper angle. The elongated member comprises a material with changing hardness (due to the varying dimensions of the elongated member along its length) in a longitudinal direction. The elongated member tapers distally to a more flexible distal portion.

- 4. Claims 71-74, 76-81, 83 and 84 are rejected under 35 U.S.C. 102(b) as being anticipated by Amplatz et al. (US 4,991,602).
- 5. Amplatz discloses a guidewire comprising an elongated core member with at least one longitudinal section (12) having a tapering diameter defined substantially by the formula set forth in claim 71. Even though Amplatz may not expressly disclose the formula set forth in claim 71, the guidewire of Amplatz is sufficient to read on the claim. It is respectfully noted that the claim only requires that the diameter be defined by the formula for a single value of length L. Since C is a constant that depends on the boundary conditions of the longitudinal section, C can arbitrarily be defined so that the formula will be true for at least one point at a distance of L from a starting position of any taper. Therefore, the longitudinal section of Amplatz has a tapering diameter defined substantially by the formula set forth in claim 71 for one value of L. Similarly, the longitudinal section has a moment of inertia defined substantially by the formula set forth in claim 78 for one value of L.

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6. In regards to claims 72 and 79, the core member is formed of Nitinol (column 2, lines 30-32). In regards to claims 73, 74, 80 and 81, the core member may be coated with a lubricious coating (column 5, lines 15-25). In regards to claims 76, 77, 83 and 84, the guidewire comprises at least 6 tapered segments (12, 22, 24 on each end of the guidewire).

- 7. Claims 71, 72, 75-79 and 82-84 are rejected under 35 U.S.C. 102(b) as being anticipated by Urick (US 5,497,786).
- 8. Urick discloses a guidewire comprising an elongated core member having a having at least one longitudinal section (12, 14, 16, 18) having diameter. Even though Urick may not expressly disclose the formula set forth in claim 71, the guidewire of Urick is sufficient to read on the claim. It is respectfully noted that the claim only requires that the diameter be defined by the formula for a single value of length L. Since C is a constant that depends on the boundary conditions of the longitudinal section, C can arbitrarily be defined so that the formula will be true for at least one point at a distance of L from a starting position of any taper. Therefore, the longitudinal section of Urick has a tapering diameter defined substantially by the formula set forth in claim 71 for one value of L. Similarly, the longitudinal section has a moment of inertia defined substantially by the formula set forth in claim 78 for one value of L.
- 9. In regards to claims 72 and 79, the core member is formed of stainless steel (column 2, lines 44-49). In regards to claims 75 and 82, a flexible body (26) is disposed about and secured to a distal core section. In regards to claims 76, 77, 83 and 84, the

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guidewire comprises at least 5 tapered segments (12, 14, 16 and 18 as shown in figure 1 and on each side of 19 as shown in figure 3).

Terminal Disclaimer

10. The terminal disclaimer filed on 3/28/2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 6,673,025 and any patent granted on application number 10/631,275 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

11. Applicant's arguments with respect to amended claims 71 and 78 have been fully considered but they are not persuasive. In particular, it is noted that the claim requires that a tapering diameter or moment of inertia be defined by the formula for only one value of L rather than a range of values for L. Since the formula includes a constant C that depends on the boundary conditions of the longitudinal section, a C may always be determined so that the diameter or moment of inertia at one point on the longitudinal section may be defined by the formula. Therefore, the structures disclosed by Amplatz and Urick are sufficient to read on claims 71 and 78 even though neither reference expressly discloses the formulas of claims 71 and 78.

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Conclusion

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Apanius whose telephone number is (571)272-

5537. The examiner can normally be reached on Mon-Fri 9am-5:30pm.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

14. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. A./

Examiner, Art Unit 3736

/Max Hindenburg/

Supervisory Patent Examiner, Art Unit 3736